



*Connect to TFS – The Smart Way!*

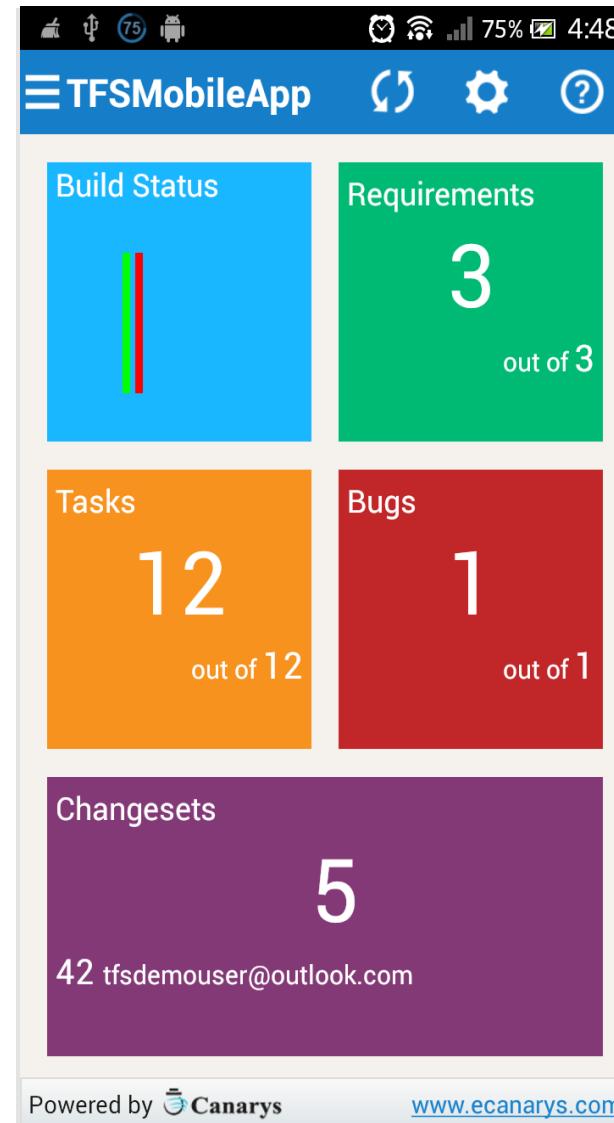
# SmartTFS User Manual

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Version 1.0

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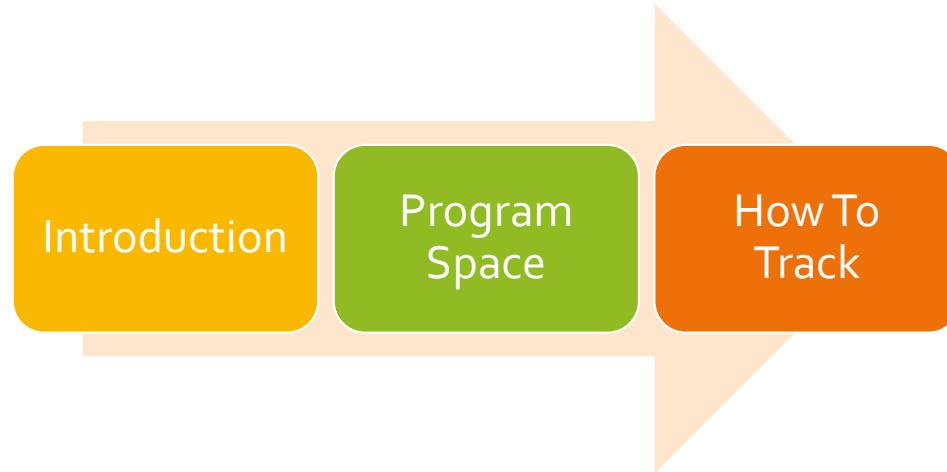
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*Connect to TFS – The Smart Way!*

# Contents



# Introduction



*Connect to TFS – The Smart Way!*

## **What is SmartTFS for mobile devices?**

SmartTFS is a smart way to connect to your Team Foundation Server (in-premise/on-cloud).

Authorized team members can quickly connect to their Team Projects using the OData Service on SmartTFS and track their project progress easily on the go. SmartTFS provides a quick access, intuitive layouts, easy navigation and drill-down data widgets to access the real time information on your tasks, requirements, bugs, Changesets and build summary reports.

You can track your project progress on the move.

## **Which devices does SmartTFS support?**

You can install SmartTFS on Android (mobile phones and tablets) operating systems.

## **How does SmartTFS works?**

SmartTFS for mobile devices allows you to access data you stored on Team Foundation Server (in-premise/on-cloud) using OData Service. OData Service model provides a great solution to work with data from Team Foundation Server on multiple device types (such as smartphones and tablets) and operating systems. OData has been embraced by numerous developers for building great device-specific applications. OData is accessible from any device and application stack which supports HTTP requests.

# Introduction



*Connect to TFS – The Smart Way!*

## What does SmartTFS do?

Using SmartTFS, you can Connect to your Team Projects on the Team Foundation Server (in-premise/on-cloud)

Track the progress of the project on the Home Screen

Track the requirements and its workflow status

Track the tasks from the project/resource level

Track the bugs at the resource level

Track the Changesets at the resource level

Track the build summary at the Team Project level

Track the overall project status across all Team Projects

## How to get SmartTFS?

Canarys SmartTFS is a smart way to connect to Team Foundation Server and track the project progress on the move. You can download the app and follow the simple instructions to install it on your Team Foundation Server.

See more details about this app at our website:

<http://www.ecanarys.com/products/smартtfs>

# Introduction



*Connect to TFS – The Smart Way!*

## **How much does SmartTFS cost?**

SmartTFS for mobile devices is available for free.

## **How to install SmartTFS?**

Download SmartTFS from the product download page.

Follow the standard installation procedure for any Android App.

## **How do we ensure the security of your data in SmartTFS?**

The app uses SSL protocols to transfer data through both In Premise and On Cloud TFS.

# Program Space – Configure TFS OData Services



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## How to configure SmartTFS on the in-premise server?

Primarily, You require an OData service to access the Team Foundation Server through SmartTFS.

Team Foundation Server 2010 and 2012 can be configured to support the TFS OData Services. By default, the only supported connectivity to TFS is through the client object model. This is essentially a wrapper around that API.

Follow these steps to configure TFS OData Services for your on-premises TFS implementation.

To deploy the OData service, you will need the following.

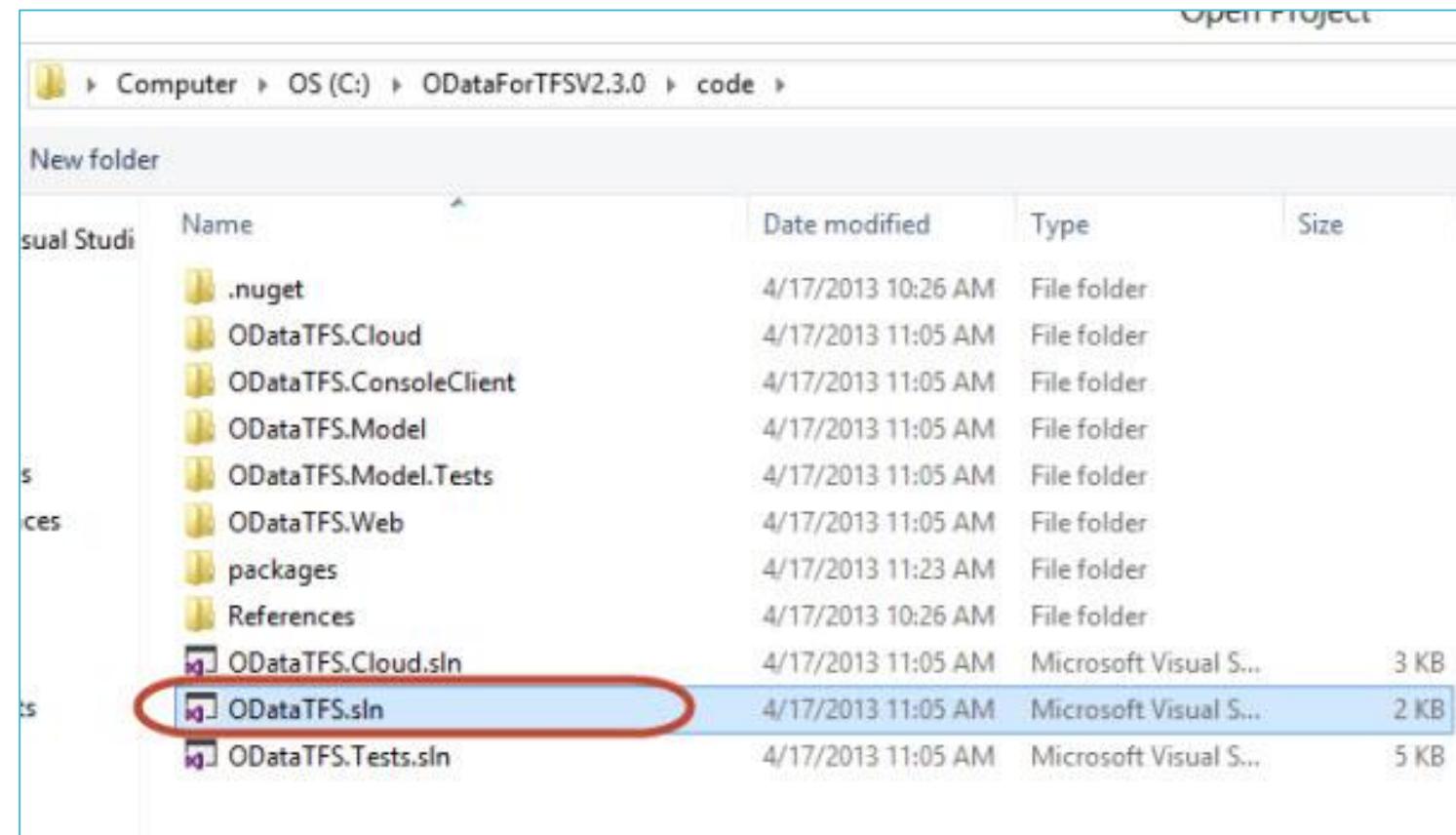
- [Microsoft .NET Framework 4.5](#)
- Team Foundation Server 2012 Update 1 Object Model Installer (included as part of ODataTFS.Web project)
- IIS 7 or later with ASP.NET installed – this means Windows 7 and up, Windows Server 2008 and up
- SSL certificate to secure HTTPS endpoint (if deploying publically)
- Windows Azure account (optional)

# Program Space – Configure TFS OData Services

## How to configure SmartTFS on the in-premise server?

Download the [OData Service for Team Foundation Server v2](#) and run the executable to unpack the files to a local folder. The folder contains a readme document that is also helpful for installing and includes steps for optionally installing this service in Azure.

Open the ODataTFS Solution in the Code folder.



# Program Space – Configure TFS OData Services

## How to configure SmartTFS on the in-premise server?

From the ODataTFS.Web project, open the Web.config file to set the TFS Connection. Modfiy the ODataTFS.TfsServer appSetting to point to your TFS Server.

TFS OData Service uses basic authentication to pass the username and password to the TFS Server. This passes those values as plain text so it is highly encouraged to use HTTPS. The remaining steps assume you are configuring this to use HTTPS. If you are not or want to use it for testing. Change the Transport security to TransportCredentialOnly

```
<appSettings>
  <add key="ODataTFS.AuthProvider" value="Microsoft.Samples.DPE.ODataTFS.Web.Infrastructure.TFSAuthProvider" />

  <!--
  TFS endpoint goes here.
  Use https://visualstudio.com for Team Foundation Service (subdomain added in service code during runtime).
  Example local endpoint: https://tfss:8080/tfs
  -->
  <add key="ODataTFS.TfsServer" value="http://tfss2012test:8080/tfs" />

  <!-- WorkItemTrackingCacheRoot can be modified to change the location of the TFS OM cache.
  <add key="WorkItemTrackingCacheRoot" value="C:\TFSOMCache" />
  -->
</appSettings>
```

```
<bindings>
  <webHttpBinding>
    <binding name="higherMessageSize" maxReceivedMessageSize="157286400" max
      <security mode="Transport"></security>
      <readerQuotas maxDepth="157286400" maxStringContentLength="157286400"
      </binding>
    </webHttpBinding>
  </bindings>
</system.serviceModel>
```

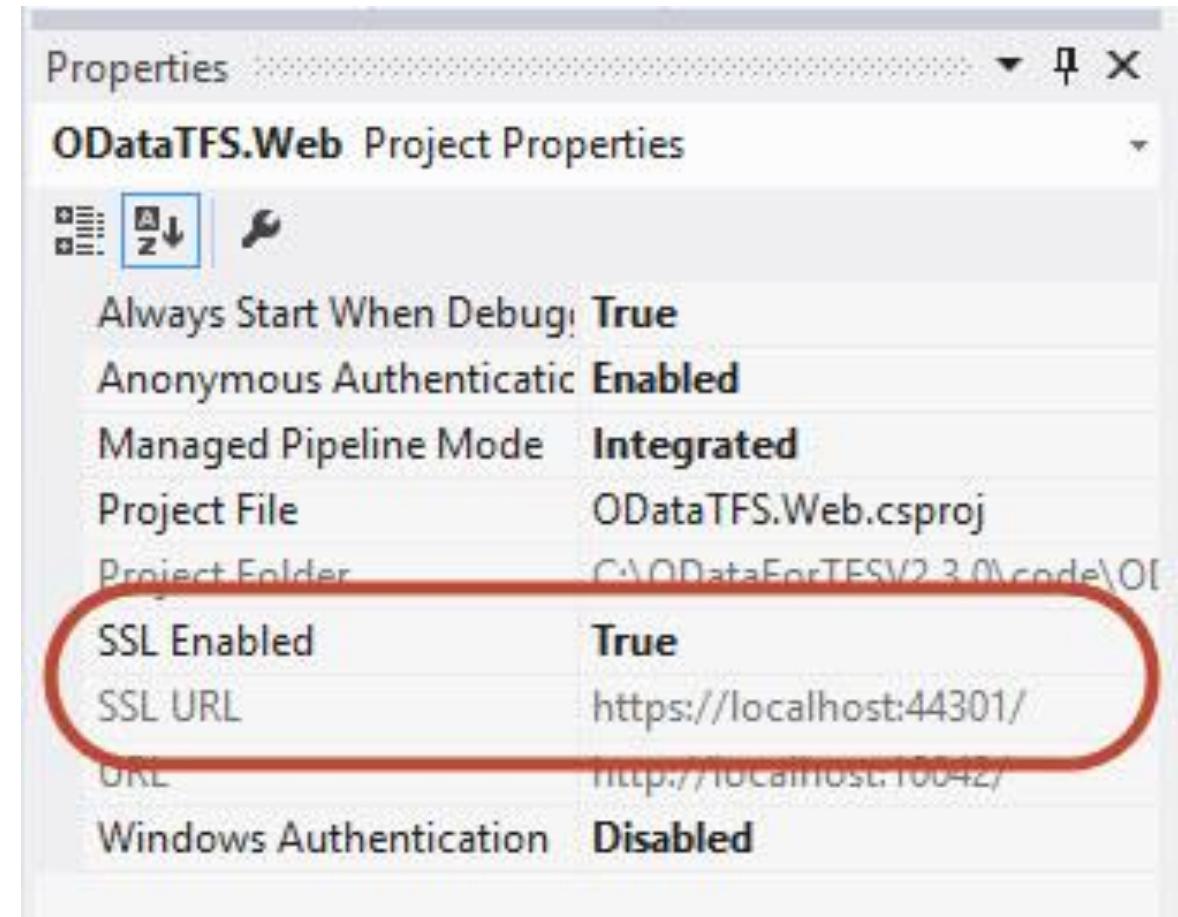
# Program Space – Configure TFS OData Services

## How to configure SmartTFS on the in-premise server?

To test locally, single click on the project to verify SSL settings are enabled

Copy the SSL URL value to the clipboard.

Paste it into the Project URL setting in the ODataTFS.Web project properties.



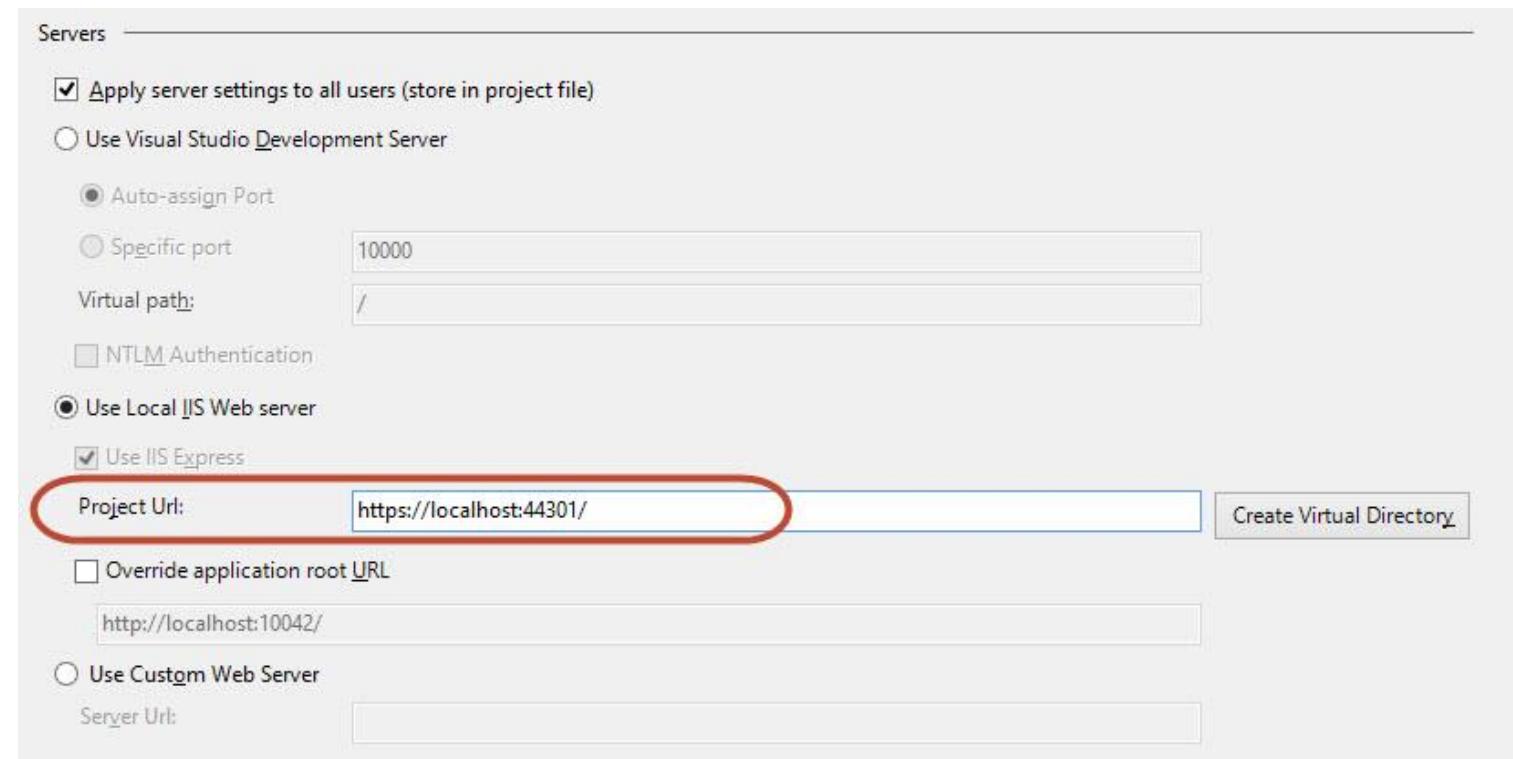
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To test locally, single click on the project to verify SSL settings are enabled

Copy the SSL URL value to the clipboard.

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# Program Space – Configure TFS OData Services

## How to configure SmartTFS on the in-premise server?

Run the project.

It will launch IE and prompt you to continue past the invalid SSL.

Click continue and the TFS OData page will display.

If you scroll half way down you will see several queries you can run.

Test returning a list of work items.

Resources	Path
Builds	<a href="https://localhost/DefaultCollection/Builds">https://localhost/DefaultCollection/Builds</a> <a href="https://localhost/DefaultCollection/Projects(' projectName ')/Builds">https://localhost/DefaultCollection/Projects(' projectName ')/Builds</a>
Build Definitions	<a href="https://localhost/DefaultCollection/Projects(' projectName ')/BuildDefinitions">https://localhost/DefaultCollection/Projects(' projectName ')/BuildDefinitions</a>
Changesets	<a href="https://localhost/DefaultCollection/Changesets">https://localhost/DefaultCollection/Changesets</a> <a href="https://localhost/DefaultCollection/Projects(' projectName ')/Changesets">https://localhost/DefaultCollection/Projects(' projectName ')/Changesets</a> <a href="https://localhost/DefaultCollection/Branches(' path ')/Changesets">https://localhost/DefaultCollection/Branches(' path ')/Changesets</a> <a href="https://localhost/DefaultCollection/Builds(Project=' prjName ',Definition=' BuildDef ',Number=' BuildNum ')/Changesets">https://localhost/DefaultCollection/Builds(Project=' prjName ',Definition=' BuildDef ',Number=' BuildNum ')/Changesets</a>
Changes	<a href="https://localhost/DefaultCollection/Changesets(id)/Changes">https://localhost/DefaultCollection/Changesets(id)/Changes</a>
Branches	<a href="https://localhost/DefaultCollection/Branches">https://localhost/DefaultCollection/Branches</a> <a href="https://localhost/DefaultCollection/Projects(' prjName ')/Branches">https://localhost/DefaultCollection/Projects(' prjName ')/Branches</a>
WorkItems	<a href="https://localhost/DefaultCollection/WorkItems">https://localhost/DefaultCollection/WorkItems</a> <a href="https://localhost/DefaultCollection/Builds(Project=' prjName ',Definition=' BuildDef ',Number=' BuildNum ')/WorkItems">https://localhost/DefaultCollection/Builds(Project=' prjName ',Definition=' BuildDef ',Number=' BuildNum ')/WorkItems</a> <a href="https://localhost/DefaultCollection/Changesets(id)/WorkItems">https://localhost/DefaultCollection/Changesets(id)/WorkItems</a> <a href="https://localhost/DefaultCollection/Projects(' projectName ')/WorkItems">https://localhost/DefaultCollection/Projects(' projectName ')/WorkItems</a> <a href="https://localhost/DefaultCollection/Queries(id)/WorkItems">https://localhost/DefaultCollection/Queries(id)/WorkItems</a>
Attachments	<a href="https://localhost/DefaultCollection/WorkItems(id)/Attachments">https://localhost/DefaultCollection/WorkItems(id)/Attachments</a>
Links	<a href="https://localhost/DefaultCollection/WorkItems(id)/Links">https://localhost/DefaultCollection/WorkItems(id)/Links</a>

# Program Space – Configure TFS OData Services

## How to configure SmartTFS on the in-premise server?

Update the URL to something similar to the following:

<https://localhost:44301/DefaultCollection/WorkItems>

Adjust accordingly if your collection name, server name, or port is different.

This should display a list of work items in a format similar to a RSS/ATOM feed.

<b>WorkItems</b> You are viewing a feed that contains frequently updated content. When you subscribe to a feed, it is added to the Common Feed List. Updated information from the feed programs. <a href="#">Learn more about feeds</a> .  <a href="#">Subscribe to this feed</a>
<b>Create new user</b> Wednesday, March 13, 2013, 2:46:14 PM
<b>Branding</b> Wednesday, March 13, 2013, 2:13:35 PM
<b>test</b> Wednesday, March 13, 2013, 8:49:59 AM
<b>Welcome Page should display</b> Wednesday, March 13, 2013, 8:31:16 AM
<b>New User Creation</b> Wednesday, March 13, 2013, 8:30:34 AM

# Program Space – Configure TFS OData Services

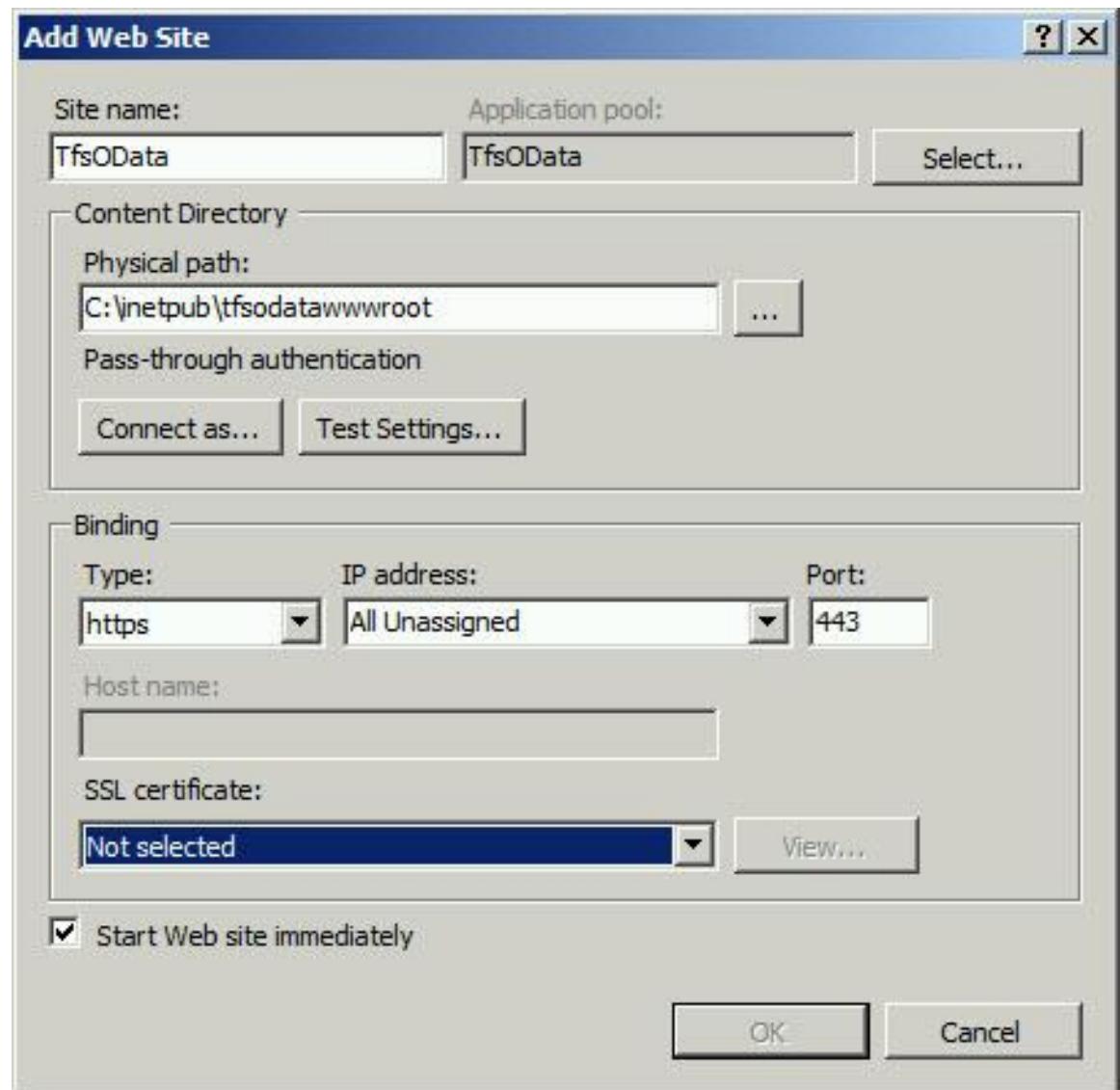
## How to configure SmartTFS on the in-premise server?

Now that you have it running locally, deploy it to any IIS server in your network or again you can host this in Azure (see readme documentation included with OData Service for TFS v2 download).

Create a website, specify a local folder, set the SSL to the appropriate server.

Make sure to configure a trusted SSL certificate or TFS Agile Poker will return an error.

Ensure the application pool that this service is going to be used is set to use .Net 4.0 framework.



# Program Space – Configure TFS OData Services

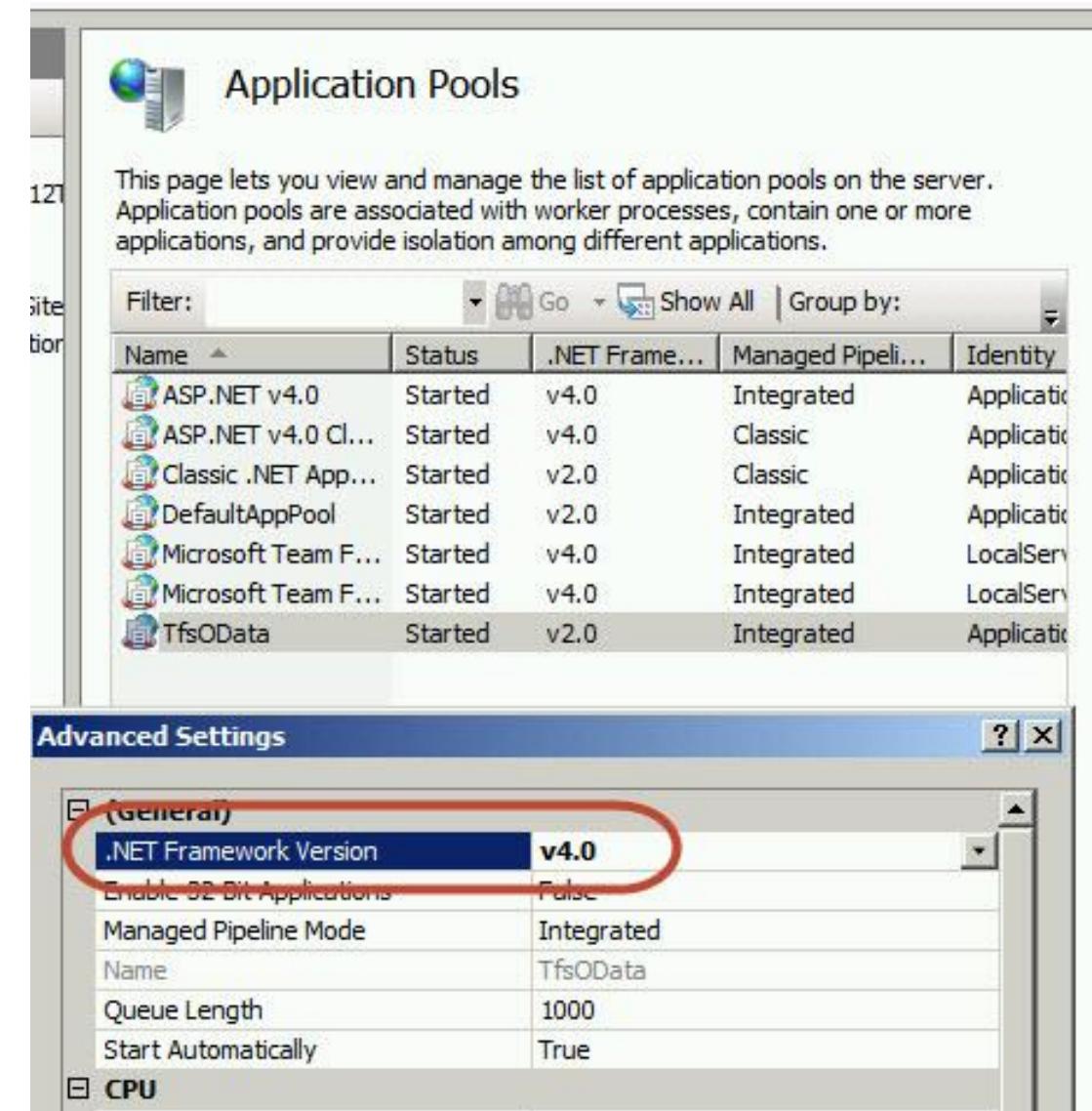
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# Program Space – Configure TFS OData Services



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## Troubleshooting

### Common Issues

Two common errors seen when building and deploying OData services are HTTP 500 and 404. Here are the most common causes and what to do about them.

#### **HTTP 500 Internal Server Error after new deployment**

Permissions - ensure application pool identity running deployed service has appropriate permission to database.

#### **HTTP 404**

You may have deployed the schema, but not the data. OData services return a 404 when you query by primary keys that don't exist. For example, you would get this error if testing with the following, which asks for a product with a key of 843, when the data has not been deployed:



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## References

### Configure TFS OData Services

<http://www.tfsagilepoker.com/HowTo/Win8/ConfigureTfsOdataServices>

### OData Service for Team Foundation Server v2

<http://www.microsoft.com/en-us/download/details.aspx?id=36230>

### Deploying OData Services using IIS & SQL Server

<http://msdn.microsoft.com/en-us/data/gg192995.aspx>

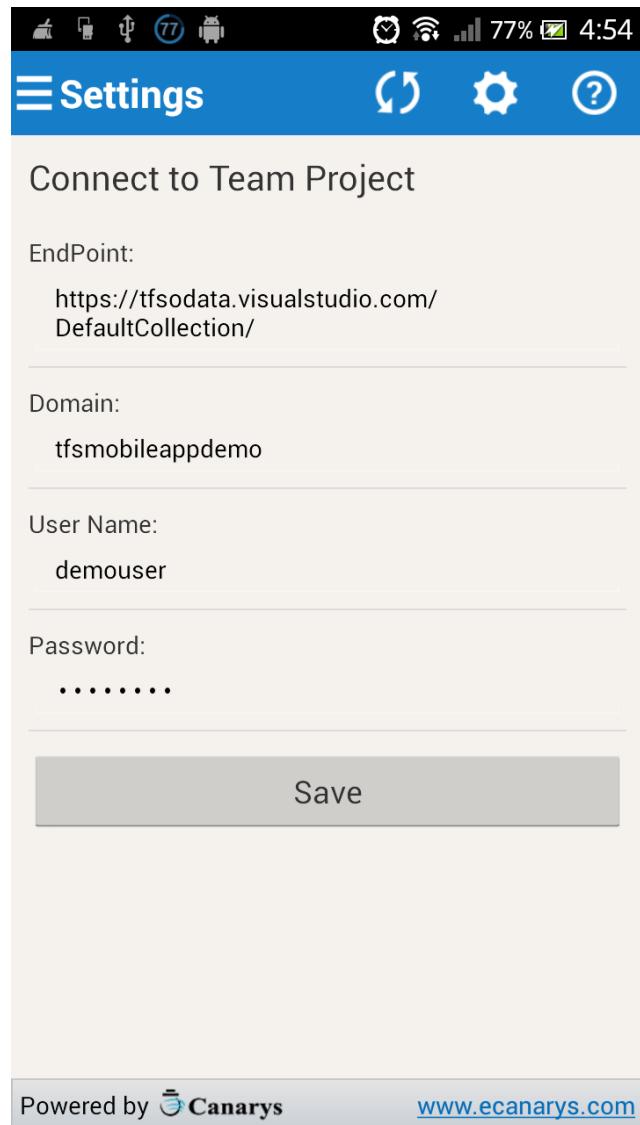
### Team Foundation Server OData API

<https://tfsoodata.visualstudio.com/>

### What is the OData protocol? OData Home

<http://www.odata.org/>

# How To Tasks



## How to configure SmartTFS on the device?

Tap the SmartTFS after installation.

Tap the Settings option.

Fill in the details relevant to your Team Project.

**EndPoint:** Type the URL to point to your TFS Server

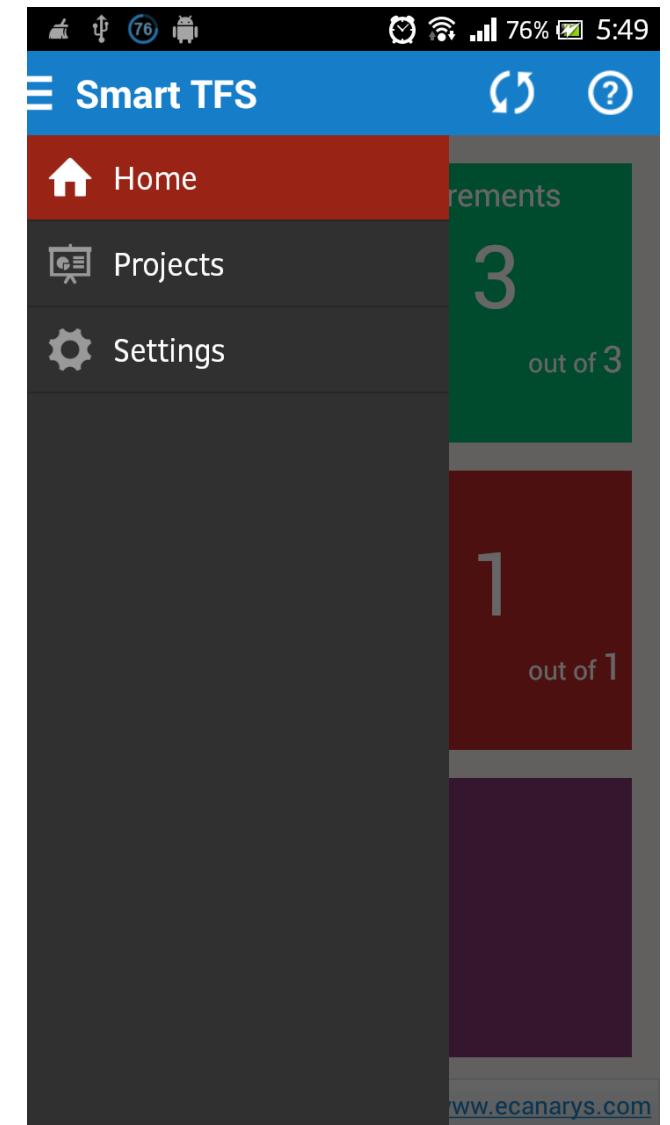
**Domain:** Type the Domain name

**User Name:** Type the User Name already registered in your TFS Server

**Password:** Type the password relevant to the User Name

Tap the Save button to confirm the authentication.

You will see the TFS Collections screen next.



# How To Tasks

\* Prerequisite: Configure SmartTFS after installation

## How to connect to my Team Project?

Tap the Home button.

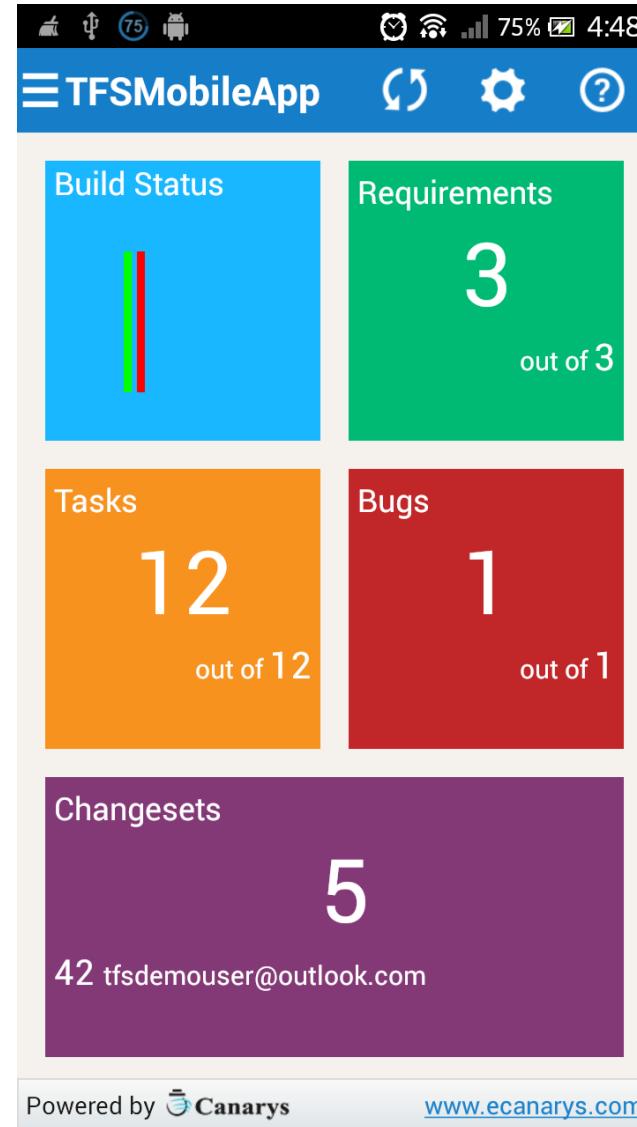
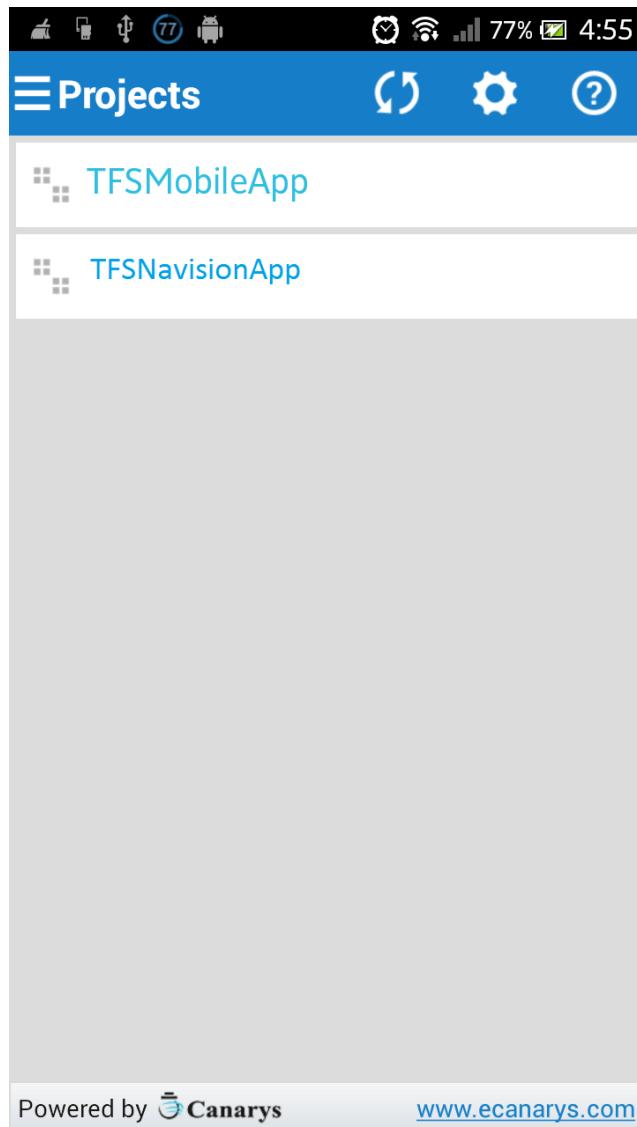
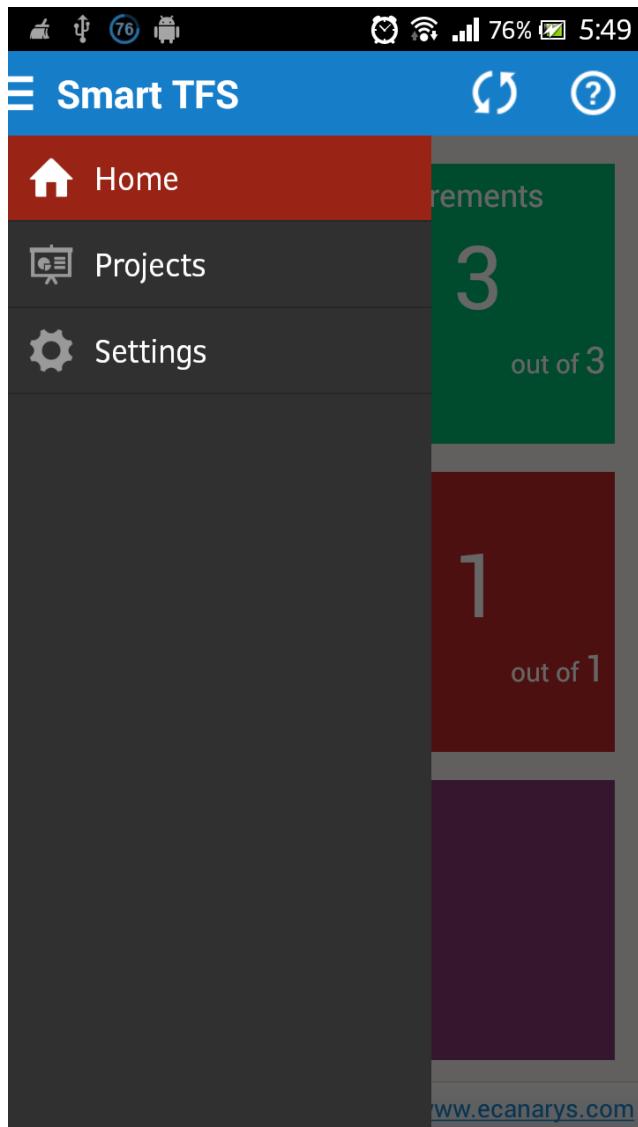
You will see the TFS Collection Home Screen.

Tap the Home option.

You will see the TFS Team Projects.

Tap the Team Project to connect.

You will see the Team project dashboard.



# How To Tasks

## How to track the progress of the Team project?

Tap the Team Project to connect.

You will see a dashboard of current work in progress.

**Build Info:** Tap this color tile to view the build status – Succeeded or Failed.

**Requirements:** Tap this color tile to view the requirements work status – Approved or New.

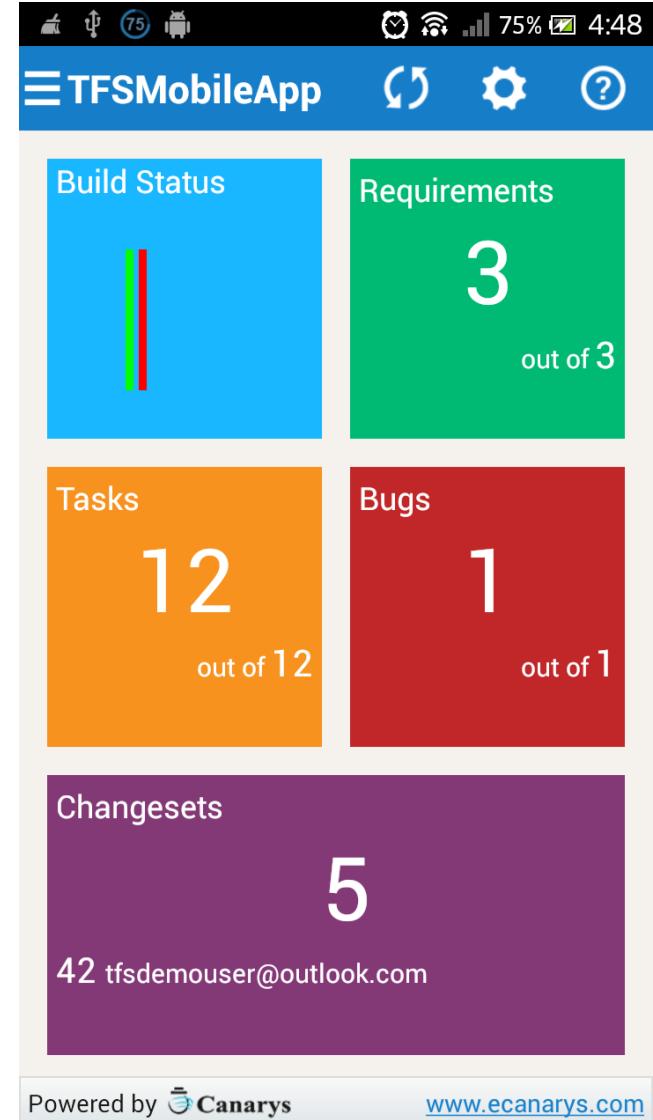
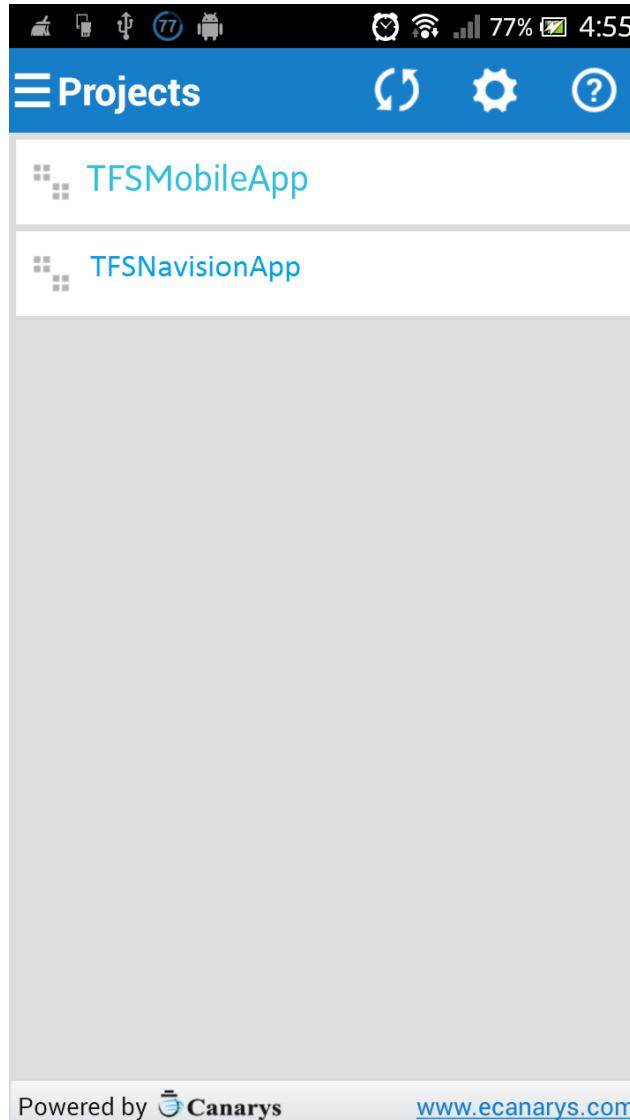
**Tasks:** Tap this color tile to view the tasks status – Active, Resolved or Closed.

**Bugs:** Tap this color tile to view the bug status – New, Active or Resolved.

**Changesets:** Tap this color tile to view the Changesets ordered by latest.

Tap the Refresh icon to refresh the dashboard snapshot.

\* Prerequisite: Configure SmartTFS after installation



# How To Tasks

**How to track the Requirements and workflow status of the Team project?**

Tap the Team Project to connect.

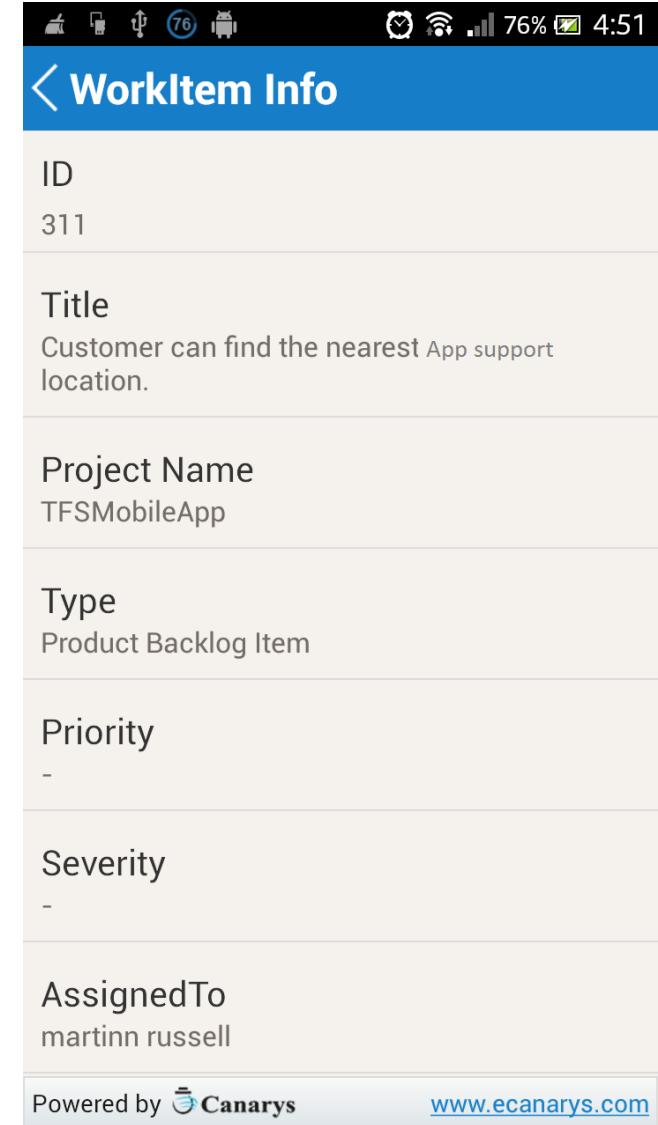
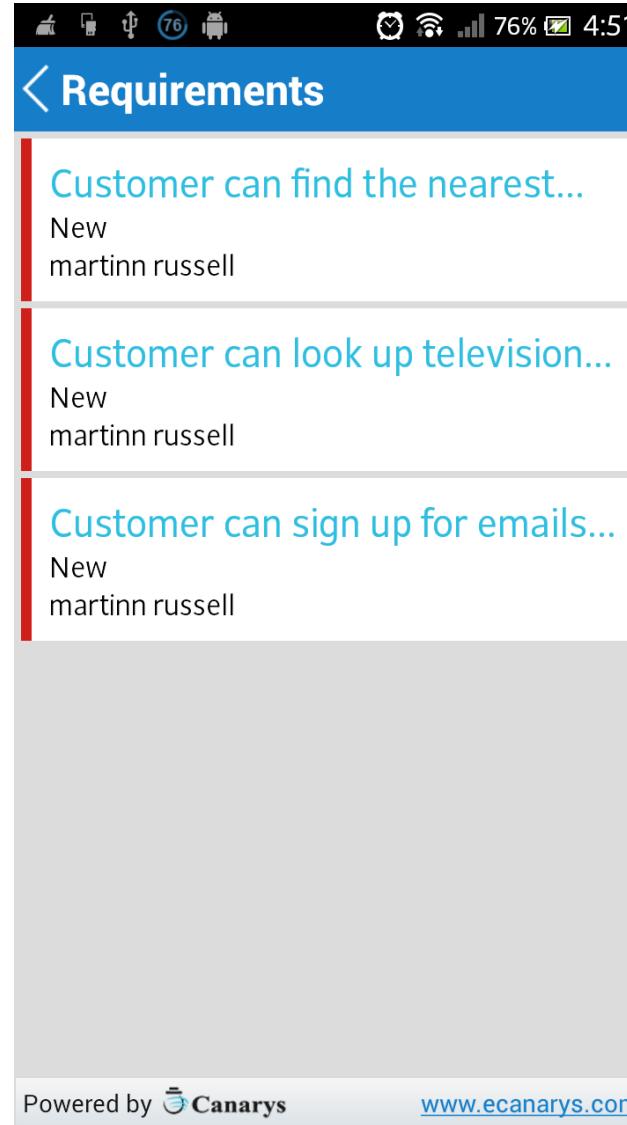
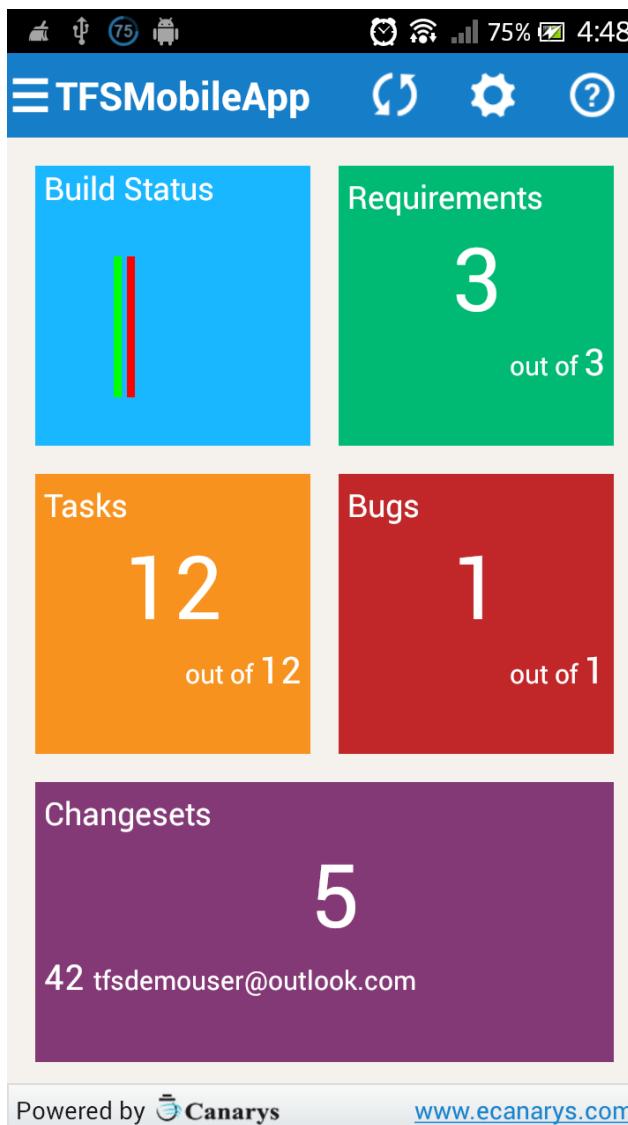
Tap the Requirements tile.

You will see the requirements sorted by latest entry first.

Tap the Requirement.

You will see the work item info.

\* Prerequisite: Configure SmartTFS after installation



# How To Tasks

## How to track the Tasks from the project level?

Tap the Home option.

Tap the Team Project to connect.

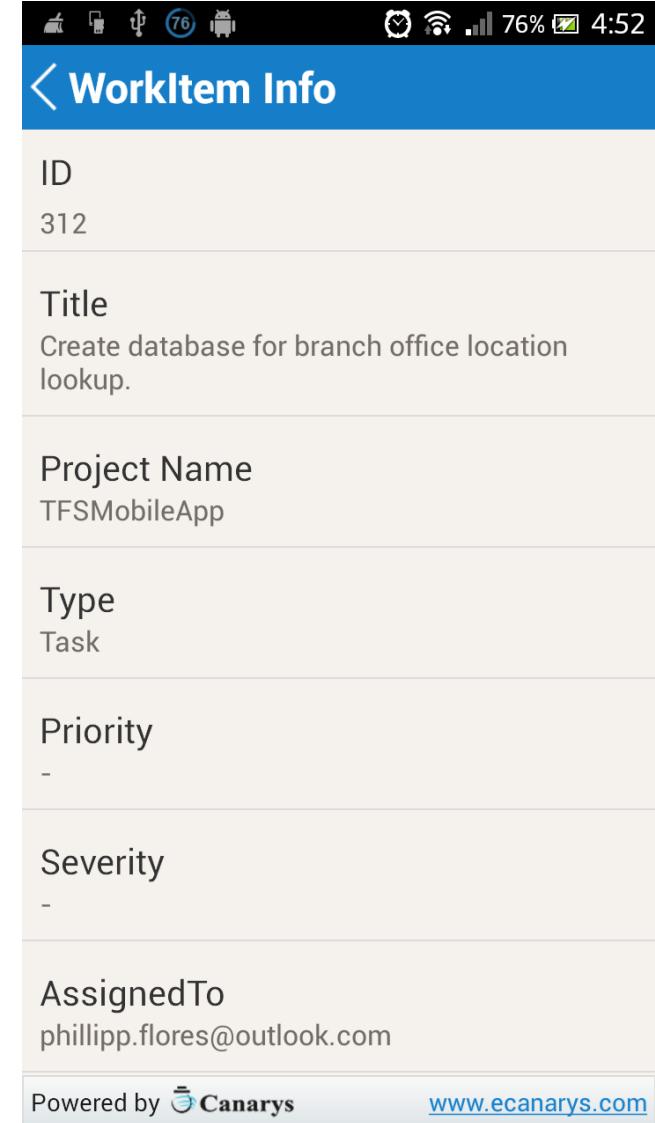
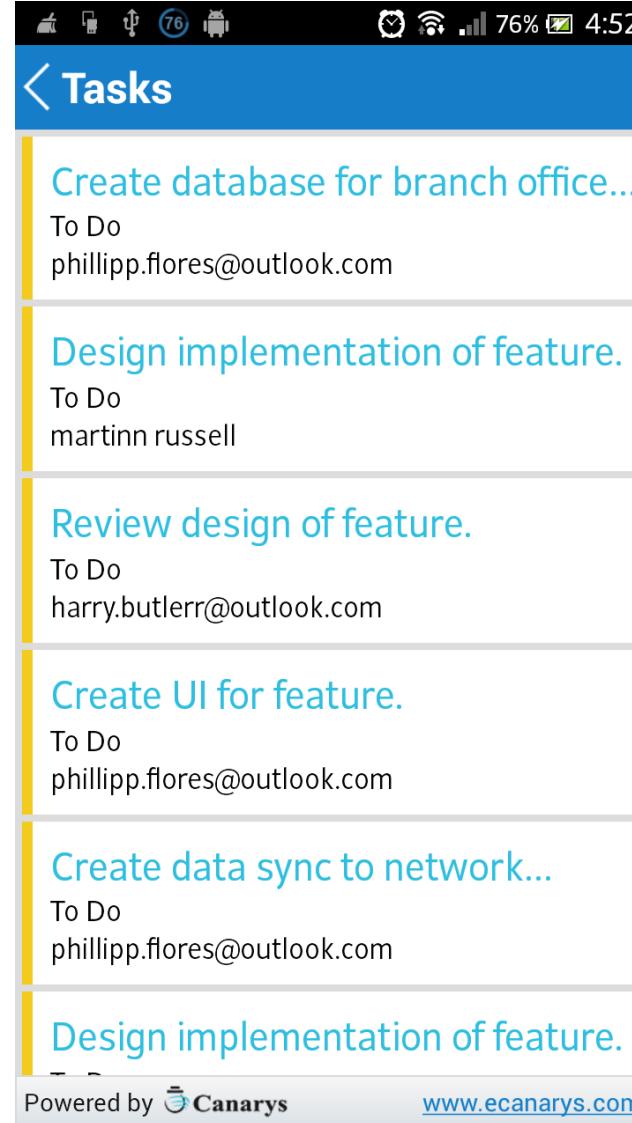
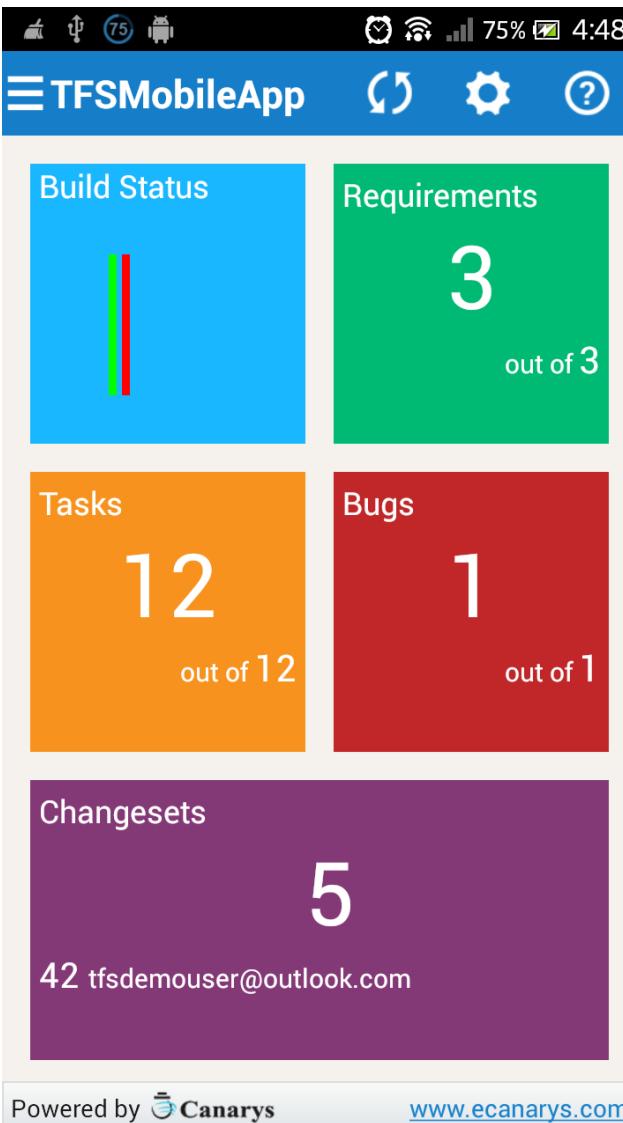
Tap the Tasks tile.

You will see the tasks sorted by latest entry first.

Tap the Task.

You will see the Task work item info.

\* Prerequisite: Configure SmartTFS after installation



# How To Tasks

## How to track the Changesets from the project level?

Tap the Team Project to connect.

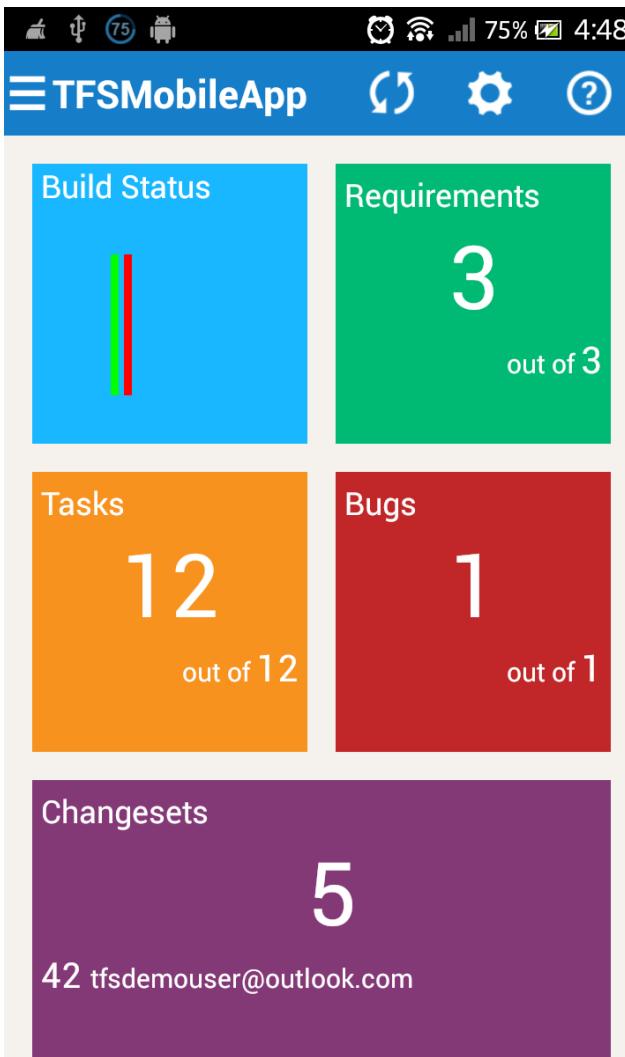
Tap the Changesets tile.

You will see the Changesets sorted by latest entry first.

Tap the Changesets.

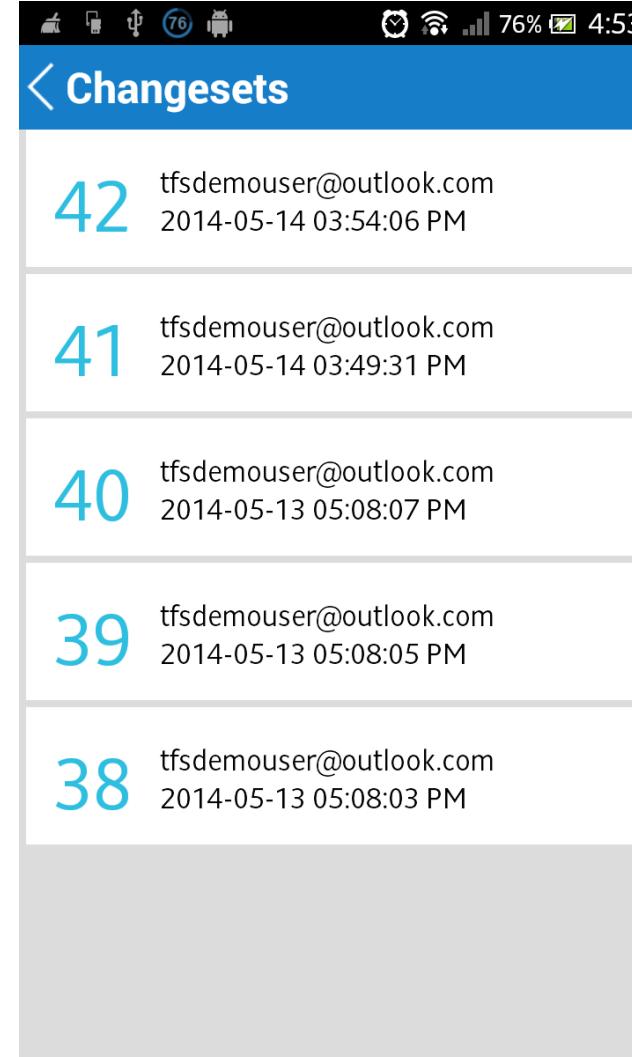
You will see the work item info.

\* Prerequisite: Configure SmartTFS after installation



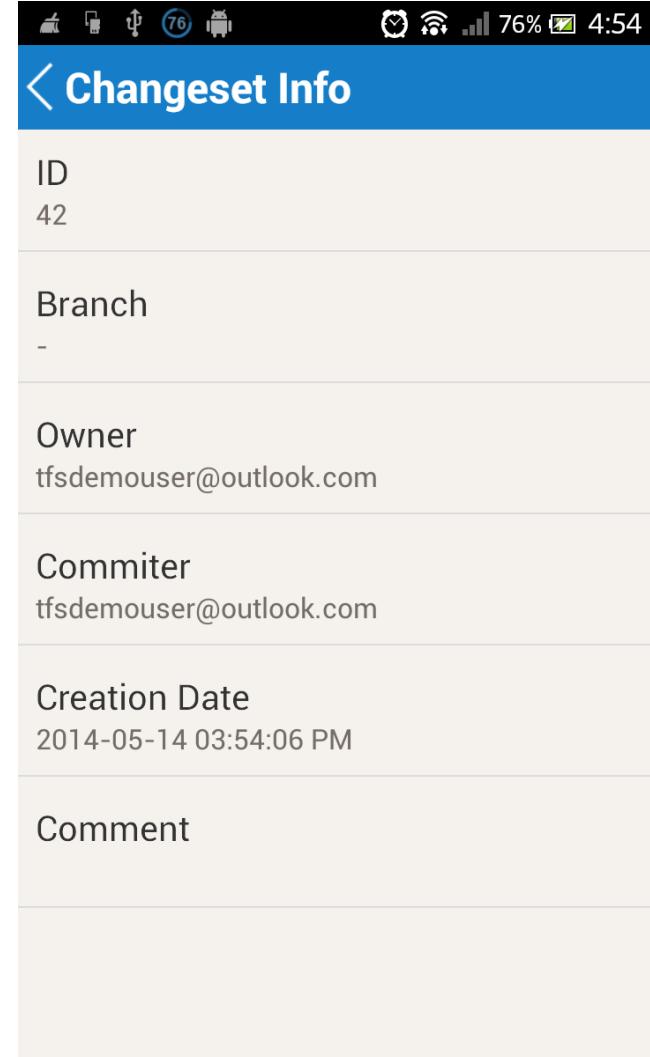
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# How To Tasks

**How to track the Build summary from the project level?**

Tap the Team Project to connect.

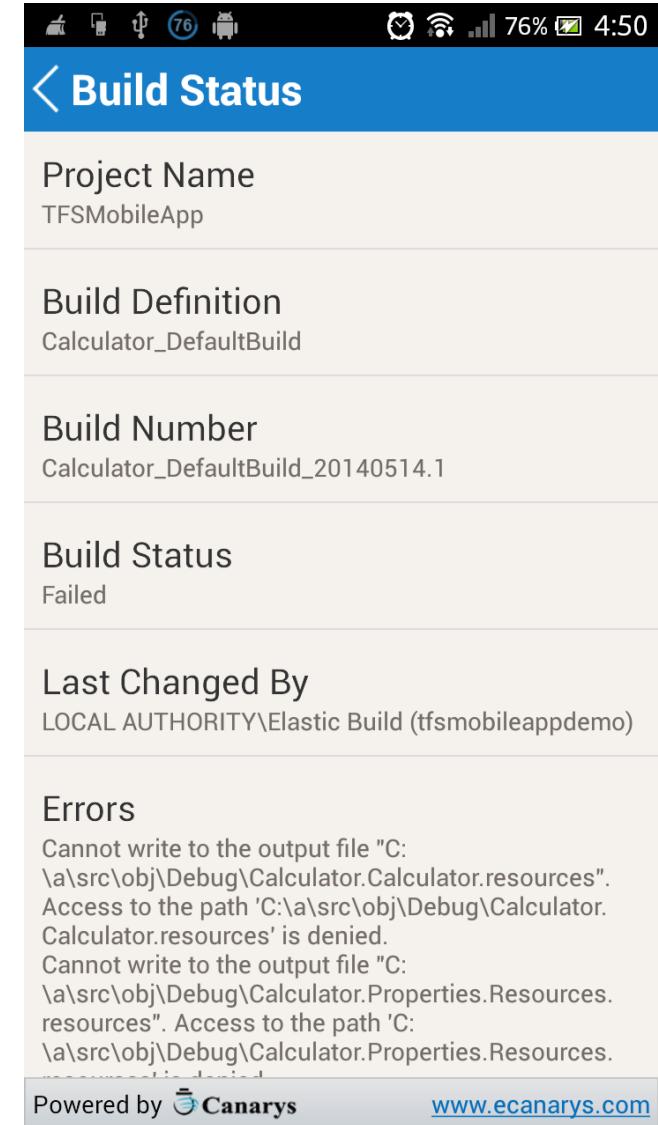
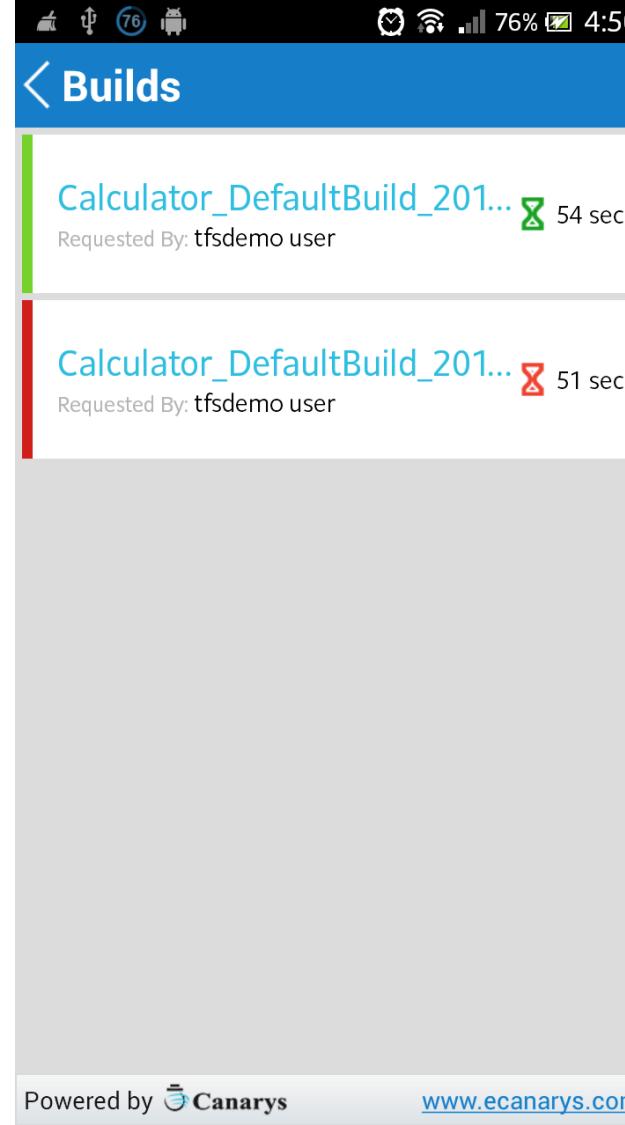
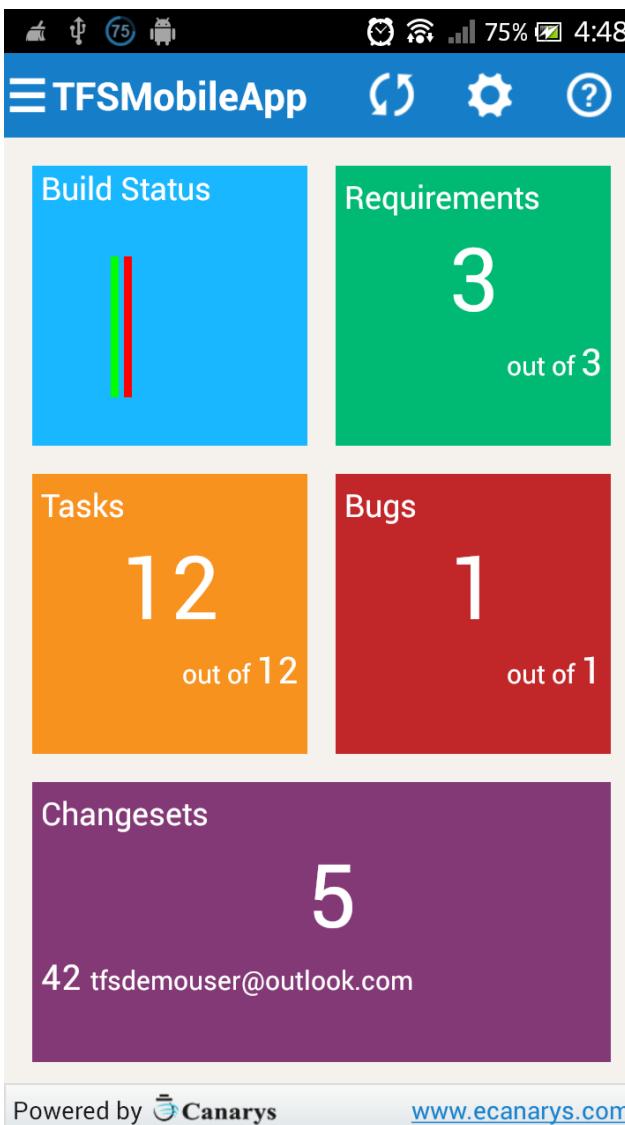
Tap the Build Info tile.

You will see the Build summary sorted by latest entry first.

Tap the Build result.

You will see the build status info.

\* Prerequisite: Configure SmartTFS after installation



# How To Tasks

## How to use Help?

Tap the Team Project to connect.

Tap the Help icon for more information.

**Settings:** How to configure SmartTFS app to connect to another Team Foundation Server?

**Selecting a Project:** How to use SmartTFS app to navigate between Team Projects?

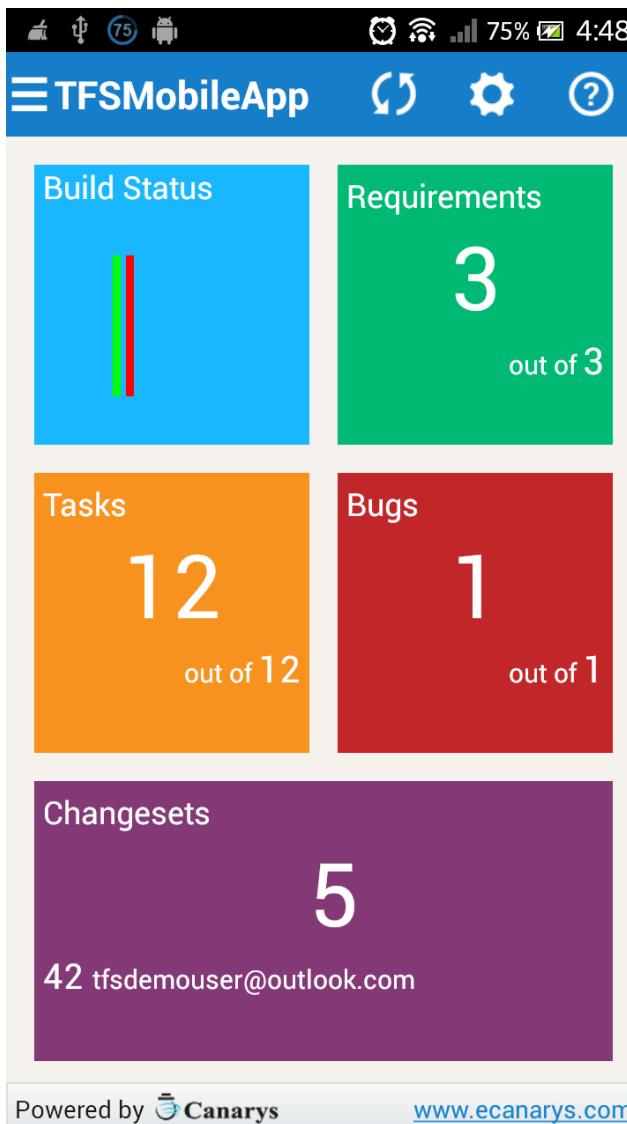
**Build:** Determine the latest build status – Success, Partial Success or Failed.

**Requirements, Tasks and Bugs:** Determine the requirements, tasks, bugs and work status.

**Changesets:** Determine the latest Changesets and work status.

Tap the Refresh icon to refresh the dashboard snapshot.

\* Prerequisite: Configure SmartTFS after installation



### Settings

The following details are required to configure SmartTFS app to connect to Team Foundation Server (2010 / 2012).

- Endpoint – The URL to point to your TFS Server. For e.g. <https://tfsodata.visualstudio.com/TFS-AppsCollection>
- Domain – The Domain name for your network.
- User Name – Your User Name to access your TFS Server.
- Password – The password relevant to the User Name.

This configuration settings is stored locally and used every time to connect to Team Foundation Server. Tap on the settings icon on the top bar, to change any of the details and tap save button to confirm the change.

### Selecting a Project

- Tap on Drawer icon (the three lines in top right corner of blue bar) to see the drawer menu screen.
- Tap on "Projects" to see the list of projects accessible with the current credentials provided in the settings screen. Tap the project to see the home

